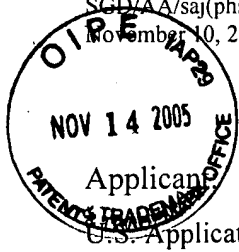


zfw



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Joachim Kiefer, Oemer Uensal, Gordon Calundann and James Crivello

U.S. Application No.: 10/506,387

Group Art Unit: 1745

371(c)/Filing Date: January 25, 2005

Examiner: not assigned

Confirmation No.: 1646

Title: PROTON CONDUCTING ELECTROLYTE MEMBRANE HAVING REDUCED  
METHANOL PERMEABILITY AND THE USE THEREOF IN FUEL CELLS

CERTIFICATE OF MAILING OR TRANSMISSION	
I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, or is being facsimile transmitted to the United States Patent and Trademark Office on:	
11-10-05	<i>Samaha Jammal</i>
Date	Signature
<i>Samaha Jammal</i>	
Typed or printed name of person signing certificate	

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

This Information Disclosure Statement is submitted:

☐ under 37 CFR 1.129(a), or

(First/Second submission after Final Rejection)

☒ under 37 CFR 1.97(b), or

(Within any one of the following time periods: three months of filing national application (other than a CPA) or date of entry of the national stage in an international application; or before the mailing date of a first office action on the merits in a non-provisional application, including a CPA, or a Request for Continued Examination).

☐ under 37 CFR 1.97(c) together with either:

☐ a Statement under 37 CFR 1.97(e), as checked below, or

☐ a \$180.00 fee under 37 CFR 1.17(p), or

(After the 37 CFR 1.97(b) time period, but before final action or notice of allowance, whichever occurs first)

☐ under 37 CFR 1.97(d) together with:

☐ a Statement under 37 CFR 1.97(e), as checked below, and

☐ a \$180.00 fee under 37 CFR 1.17(p), or

(Filed after final action or notice of allowance, whichever occurs first, but on or before payment of the issue fee)

☐ under 37 CFR 1.97(i):

Applicant requests that the IDS and cited reference(s) be placed in the application filewrapper.

(Filed after payment of issue fee)

Statement Under 37 CFR 1.97(e)

- ☐ Each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement; or
- ☐ No item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned, after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

Statement Under 37 CFR 1.704(d) (Patent Term Adjustment)

Applies to original applications (other than design) filed on or after May 29, 2000

- ☐ Each item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in § 1.56(c) more than thirty days prior to the filing of the Information Disclosure Statement.
- ☒ Enclosed herewith is form PTO-1449:
  - ☒ Copies of the cited references are enclosed. [AO-AN4 and AS-AU]
    - ☒ Copies of issued U.S. patents and published U.S. applications are not required and are not being provided.
  - ☐ Copies of the cited references are enclosed except those entered in prior application, U.S. Application No. [ ], to which priority under 35 U.S.C. 120 is claimed. [The earlier application contains copies of the cited references.]
  - ☐ The listed references were cited in the enclosed International Search Report in a counterpart foreign application.
  - ☒ The "concise explanation" requirement (non-English references) for references [AO-AQ, AM2, AO3, AP3 and AQ3, AL4-AN4] under 37 CFR 1.98(a)(3) is satisfied by:
    - ☐ the explanation provided on the attached sheet.
    - ☐ the explanation provided in the Specification.
    - ☐ submission of the enclosed International Search Report.
    - ☐ submission of the enclosed English-language version of a foreign Search Report and/or foreign Office Action.
    - ☒ the enclosed English language abstract.

☐ Applicant requests that the following non-published pending applications be considered:

Examiner's  
Initials

\_\_\_\_ U.S. Patent Application No. [ ], by [inventor(s)], filed [ ], Docket No.: [ ]  
\_\_\_\_ U.S. Patent Application No. [ ], by [inventor(s)], filed [ ], Docket No.: [ ]  
\_\_\_\_ U.S. Patent Application No. [ ], by [inventor(s)], filed [ ], Docket No.: [ ]

\_\_\_\_\_  
Examiner

\_\_\_\_\_  
Date

- ☐ A copy of each above-cited application, including the current claims, is enclosed, except any application filed on or after June 30, 2003, which has been scanned into the PTO's Image File Wrapper (IFW) system and is available to the examiner.
- ☐ A copy of each above-cited application, including the current claims, is enclosed, except those entered in prior application, U.S. Application No. [ ], to which priority under 35 U.S.C. 120 is claimed.

The Examiner is requested to return a copy of the above list of pending applications indicating which references were considered with the next office communication.

It is requested that the information disclosed herein be made of record in this application.

Method of payment:

- ☐ A check for the fee noted above is enclosed, or the fee has been included in the check with the accompanying Reply. A copy of this Statement is enclosed.
- ☐ Please charge Deposit Account 08-0380 in the amount of \$[ ]. A copy of this Statement is enclosed.
- ☒ Please charge any deficiency in fees and credit any overpayment to Deposit Account 08-0380.

Respectfully submitted,

HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

By Alexander Akhiezer  
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Concord, MA 01742-9133

Dated: 11/10/05

PTO-1449 REPRODUCED

SUPPLEMENTAL INFORMATION DISCLOSURE  
STATEMENT IN AN APPLICATION

November 10, 2005

(Use several sheets if necessary)

ATTORNEY DOCKET NO.  
3799.1002-000APPLICATION NO.  
10/506,387FIRST NAMED INVENTOR  
Joachim KieferFILING DATE  
01/25/2005EXAMINER  
UnknownCONFIRMATION NO.  
1646GROUP  
1745

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	REF. NO.	DOCUMENT NUMBER Number-Kind Code (if known)	ISSUE DATE / PUBLICATION DATE MM-DD-YYYY	NAME OF PATENTEE OR APPLICANT OF CITED DOCUMENT
	AD	3,313,783	04-11-1967	Iwakura, <i>et al.</i>
	AE	3,224,908	12-21-1965	Duch, <i>et al.</i>
	AF	3,293,088	12-20-1966	Herbst, <i>et al.</i>
	AG	3,737,045	06-05-1973	Hashimoto, <i>et al.</i>
	AH	3,808,305	04-30-1974	Gregor, <i>et al.</i>
	AI	4,012,303	03-15-1977	D'Agostino, <i>et al.</i>
	AJ	4,075,093	02-21-1978	Walch, <i>et al.</i>
	AK	4,537,668	08-27-1985	Gaussens, <i>et al.</i>
	AA2	4,622,276	11-11-1986	Walsh
	AB2	4,634,530	01-06-1987	Kuder, <i>et al.</i>
	AC2	5,211,984	05-18-1993	Wislon
	AD2	5,599,639	02-04-1997	Sansone, <i>et al.</i>
	AE2	5,633,337	05-27-1997	Tan, <i>et al.</i>
	AF2	5,643,968	07-01-1997	Andreola, <i>et al.</i>
	AG2	5,656,386	08-12-1997	Scherer, <i>et al.</i>
	AH2	6,030,718	02-29-2000	Fuglevand, <i>et al.</i>
	AI2	6,087,032	07-11-2000	Yoshitake, <i>et al.</i>
	AJ2	6,110,616	08-29-2000	Sheikh-Ali, <i>et al.</i>
	AK2	6,197,147 B1	03-06-2001	Bönsel, <i>et al.</i>
	AA3	6,248,469 B1	06-19-2001	Formato, <i>et al.</i>
	AB3	US2001/0038937 A1	11-08-2001	Suzuki, <i>et al.</i>
	AC3	US2002/0045085 A1	04-18-2002	Formato, <i>et al.</i>
	AD3	US2004/0101731 A1	05-27-2004	Jackoby, <i>et al.</i>

EXAMINER

DATE CONSIDERED

PTO-1449 REPRODUCED  <b>SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION</b>  <b>November 10, 2005</b>  (Use several sheets if necessary)	ATTORNEY DOCKET NO. <b>3799.1002-000</b>	APPLICATION NO. <b>10/506,387</b>	
	FIRST NAMED INVENTOR <b>Joachim Kiefer</b>		FILING DATE <b>01/25/2005</b>
	EXAMINER <b>Unknown</b>	CONFIRMATION NO. <b>1646</b>	GROUP <b>1745</b>

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER Country Code-Number-Kind Code (if known)	DATE MM-DD-YYYY	NAME OF PATENTEE OR APPLICANT OF CITED DOCUMENT	TRANSLATION	
					YES	NO
	AO	DE 101 48 131 A1	05-08-2003	HTP High Tec Plastics AG		
	AP	DE 1 301 578	08-21-1969	Teijin Ltd.		
	AQ	DE 196 53484 A1	06-25-1998	Fraunhofer Ges Foerderung Angewandten		
	AL2	EP 0 265 921 A2	05-04-1988	Hoechst Celanese Corporation		
	AM2	EP 0 846 733 A2	06-10-1998	Daimler Benz AG (DE)		
	AN2	EP 1 110 992 A1	06-27-2001	Kabushiki Kaisha Toyota Chuo Kenkyusho		
	AO2	EP 1354907 A1	10-22-2003	Toyo Boseki Kabushiki Kaisha		
	AP2	WO 94/25506 A1	11-10-1994	Akzo Nobel		
	AQ2	WO 99/10165 A1	03-04-1999	Foster-Miller, Inc.		
	AL3	WO 00/49069 A1	08-24-2000	Paronen		
	AM3	WO 01/45192 A1	06-21-2001	Proton Energy Systems, Inc.		
	AN3	WO 01/94450 A2	12-13-2001	SRI International		
	AO3	WO 02/081547 A1	10-17-2002	Celanese Ventures GmbH		
	AP3	WO 02/088219 A1	11-07-2002	Celanese Ventures GmbH		
	AQ3	WO 02/38650 A1	05-16-2002	Toyo Boseki Kabushiki Kaisha		
	AL4	WO 03/022412 A2	03-20-2003	Celanese Ventures GmbH		
	AM4	JP 53-97988	08-26-1978	Toyo Soda Mfg. Co. Ltd.		
	AN4	JP 2002146014	05-22-2002	Toyo Boseki		

EXAMINER

DATE CONSIDERED

PTO-1449 REPRODUCED

ATTORNEY DOCKET NO.  
3799.1002-000APPLICATION NO.  
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Joachim KieferFILING DATE  
01/25/2005

November 10, 2005

EXAMINER  
UnknownCONFIRMATION NO.  
1646GROUP  
1745

NOV 14 2005

(Use several sheets if necessary)

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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Osaheni, J.A. and Jenekhe, S.A., "Synthesis of Processing of Heterocyclic Polymers as Electronic, Optoelectronic, and Nonlinear Optical Materials. 4. New Conjugated Rigid-Rod Poly(benzobis(imidazole))s," *Macromolecules* 28:1172-1179 (1995).

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Polymeric Materials Science and Engineering, Y. Sakaguchi et al., Vol. 84, 2001, p. 899-900.

EXAMINER

DATE CONSIDERED